

SP6000 ~ 10000 IP Grid

## SP IP Grid Series

IP65 waterproof and dustproof design.

Hybrid inverter with Grid-tie function for outdoor installations.



### Features

- IP65 waterproof and dustproof design
- Grid-tie function with backup
- Built-in Wi-Fi for mobile monitoring (APP)
- Dual output selected as either programmable output or generator input
- Built-in alternative port for generator and emergent load
- Optional external CT sensor to guarantee 100% self-consumption.
- Built-in communication port for BMS
- User-adjustable charging current and voltage
- Parallel Operation of up to 6 units



### Specifications

| MODEL  | SP6000 IP Grid   | SP10000 IP Grid        |
|--|--|------------------------|
| <b>RATED POWER</b>                           | 6000 W   | 10000 W                |
| <b>PV INPUT (DC)</b>                         |  |                        |
| Maximum DC Power                             | 7500 W   | 12000 W                |
| Nominal DC Voltage                           | 360 VDC  |                        |
| Maximum DC Voltage                           | 600 VDC  |                        |
| Start-up Voltage / Initial Feeding Voltage   | 125 VDC / 160 VDC  |                        |
| MPP Voltage Range                            | 120 VDC ~ 550 VDC  |                        |
| Maximum Input Current                        | 2x15 A   | 2x18 A                 |
| Isc PV (absolute maximum)                    | 21 A   | 21 A                   |
| Max. inverter back feed current to the array | 0 A  | 0 A                    |
| <b>GRID OUTPUT (AC)</b>                      |  |                        |
| Nominal Output Voltage                       | 110 VAC (P-N) / 220 VAC (P-P)                                |                        |
| Output Voltage Range                         | 105.5 - 132 VAC per phase                                    | 97 - 132 VAC per phase |
| Output Frequency Range                       | 47.5 ~ 51.5 Hz or 59.3~ 60.5Hz                               |                        |
| Nominal Output Current                       | 25 A per phase   | 41.5 A per phase       |
| Inrush Current/Duration                      | 30 A per phase / 20ms  | 60 A per phase / 20ms  |
| Maximum Output Fault Current/Duration        | 90 A per phase / 1ms   | 120 A per phase / 1ms  |
| Maximum output Overcurrent Protection        | 90A per phase  | 120A per phase         |
| Power Factor Range                           | 0.9 lead - 0.9 lag   |                        |
| <b>AC INPUT</b>                              |  |                        |
| AC Start-up Voltage                          | 85 VAC per phase (P-N) / 170 VAC per phase (P-P)             |                        |
| Auto Restart Voltage                         | 90 VAC per phase (P-N) / 180 VAC per phase (P-P)             |                        |
| Acceptable Input Voltage Range               | 85 - 140 VAC per phase (P-N) / 170 - 280 VAC per phase (P-P) |                        |
| Nominal Frequency                            | 50 Hz / 60 Hz  |                        |
| AC Input Power                               | 6000VA/6000W   | 10000VA/10000W         |
| Maximum AC Input Current                     | 30 A   | 40 A                   |
| Inrush Input Current                         | 30 A / 1ms   | 40 A / 1ms             |
| <b>BATTERY MODE OUTPUT (AC)</b>              |  |                        |
| Nominal Output Voltage                       | 110 VAC (P-N) / 220 VAC (P-P)                                |                        |
| Output Frequency                             | 50 Hz / 60 Hz (auto sensing)                                 |                        |
| Output Waveform                              | Pure sine wave   |                        |
| Output Power                                 | 6000VA/6000W   | 10000VA/10000W         |
| <b>EFFICIENCY</b>                            |  |                        |
| DC to AC                                     | 96%  |                        |
| Battery to AC                                | 91%  |                        |
| <b>BATTERY &amp; CHARGER</b>                 |  |                        |
| Nominal DC Voltage                           | 48 VDC   |                        |
| DC Voltage Range                             | 40 - 62 VDC  |                        |
| Maximum Battery Discharging Current          | 150 A  | 150 A                  |
| Maximum Solar Charging Current               | 120 A  | 200 A                  |
| Maximum Charging Current                     | 120 A  | 200 A                  |
| <b>PHYSICAL</b>                              |  |                        |
| Dimension (D x W x H)                        | 215.5 x 515 x 700 mm   |                        |
| Net Weight                                   | 41kg   | 45kg                   |
| <b>INTERACE</b>                              |  |                        |
| Communication Port                           | RS-232 / USB / BMS / WIFI                                    |                        |
| Intelligent Slot                             | Optional SNMP, Modbus cards available                        |                        |
| <b>ENVIRONMENT</b>                           |  |                        |
| Protective Class                             | I  |                        |
| Ingress Protection Rating                    | IP65   |                        |
| Humidity                                     | 0 ~ 90% RH (No condensing)                                   |                        |
| Operating Temperature                        | -25 to 60°C  |                        |
| Altitude                                     | 0 ~ 2000 m*  |                        |

\* Power derating 1% every 100m when altitude is over 1000m. Specifications are subject to change without notice.

